



DoD Global Influenza and Other Respiratory Viral Pathogens Week 1 (2 Jan – 8 Jan) Weekly Surveillance Report



SUMMARY:

The WHO has confirmed a 4th case of human avian influenza in an 18 year old female in Vietnam since December 2004 (3 out of the 4 have died). (Source: NYT as reported in ProMed). According to the Chinese news agency Xinhua, there are approximately 11 other suspected cases hospitalized as well. (Source: Xinhua, as cited by ProMed 13 Jan).

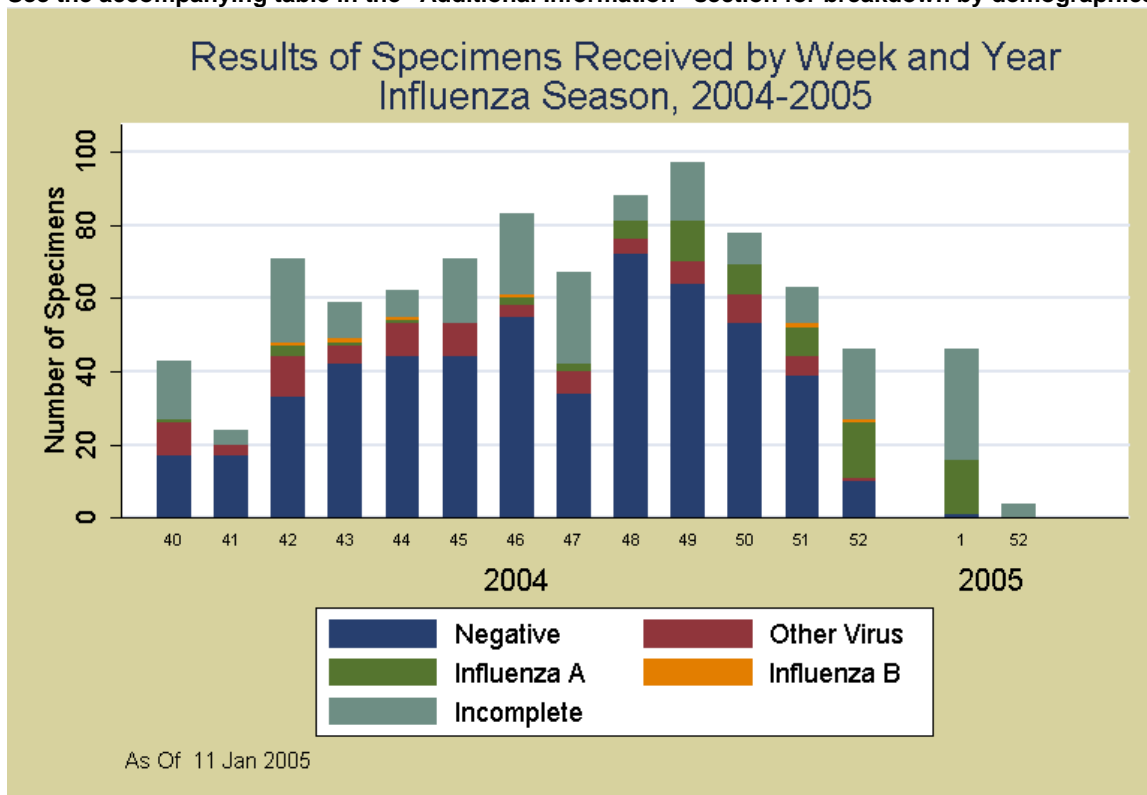
Number of new isolates for Week 1: 15 Influenza A

The new influenza A isolates consist of 4 from Ft. Dix/McGuire AFB, NJ; 3 each from Lakenheath AB, England, and Wilford Hall, TX; 2 from Elmendorf, AK; and 1 each from Keesler, MS; NAB Little Creek, VA; and USAF Academy, CO.

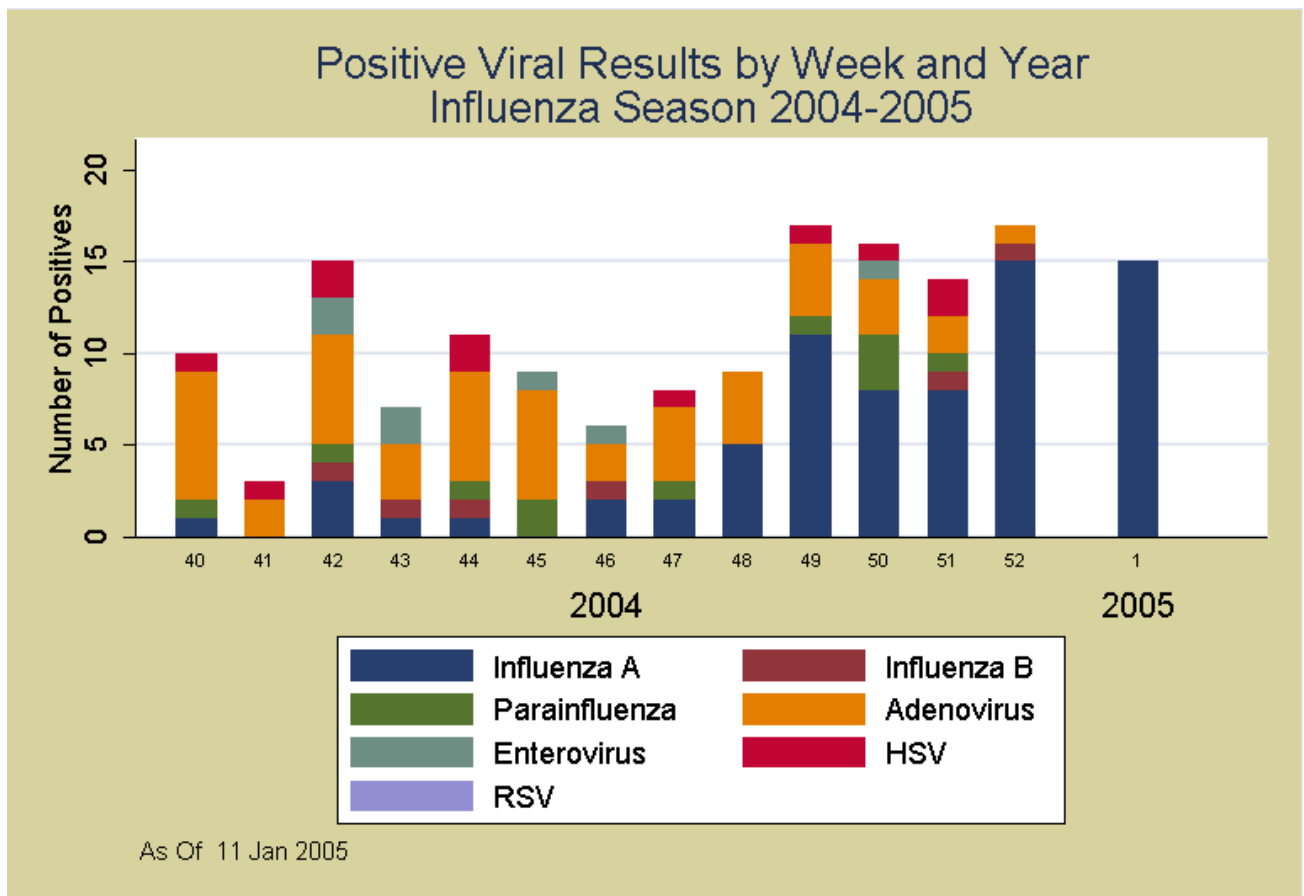
We also received 3 positive influenza specimens from before Week 1 from Balad AB, Iraq. In addition, 11 other influenza A isolates were newly identified during Week 1, but were collected prior to that week: 3 from Wilford Hall, TX; 2 from NMRC-D, Peru; and 1 each from Andrews AFB, MD; Elmendorf AFB, AK; Ft. Drumm, NY; NAB Little Creek, VA; Scott AFB, IL; and 121st Army Hosp, Korea.

Since **3 October 2004**, the Epidemiological Surveillance Division (AFIOH/SDE) has processed 684 specimens as part of the influenza surveillance program. Of those specimens, 72 (11%) were positive for influenza A, and 6 (1%) were positive for influenza B. In addition, 220 specimens are still being processed.

See the accompanying table in the “Additional Information” section for breakdown by demographics.



OVERALL DOD RESPIRATORY VIRAL SURVEILLANCE:

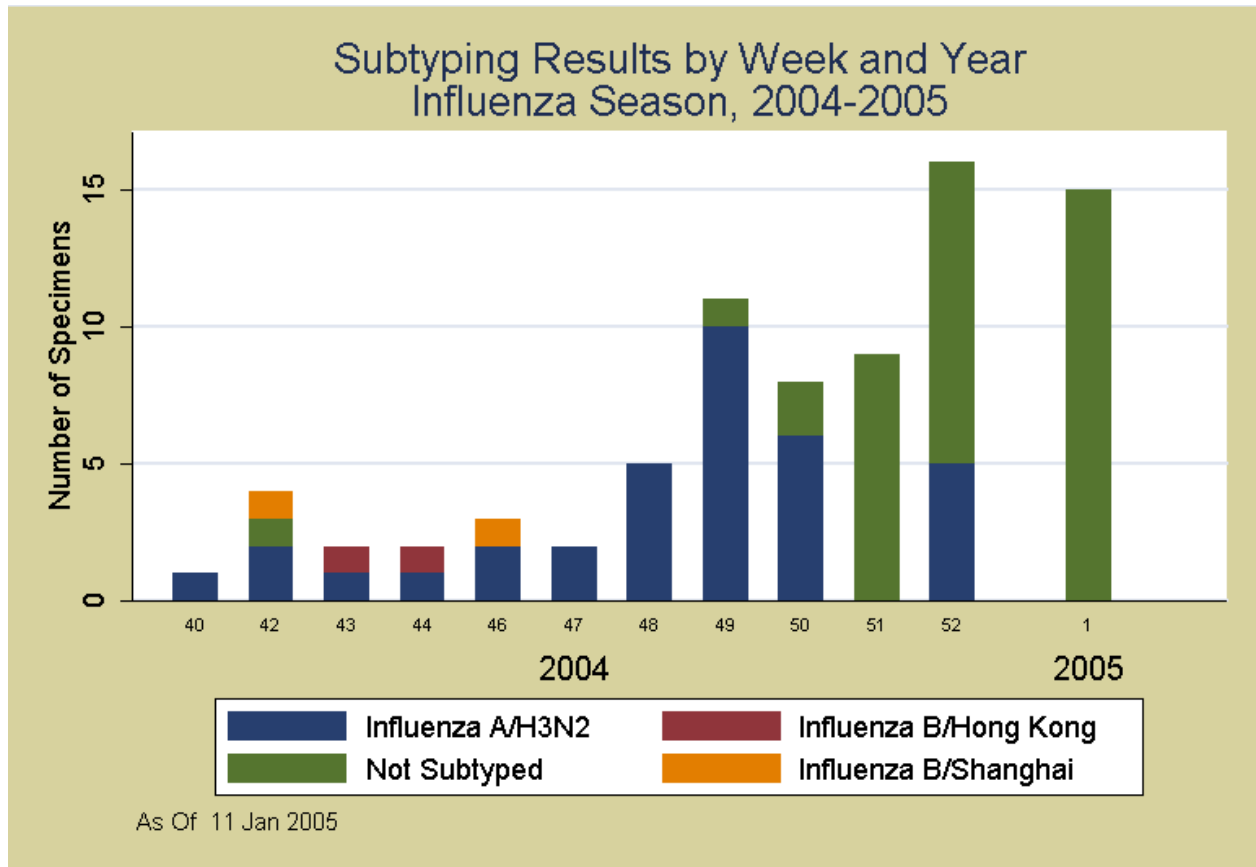


Note: Graphs do not include data from the NHRC, which conducts Febrile Respiratory Illness (FRI) surveillance among recruit populations. NHRC compiles this data into a separate report. For more information, visit the NHRC website at <http://www.nhrc.navy.mil/geis/>

SUBTYPING:

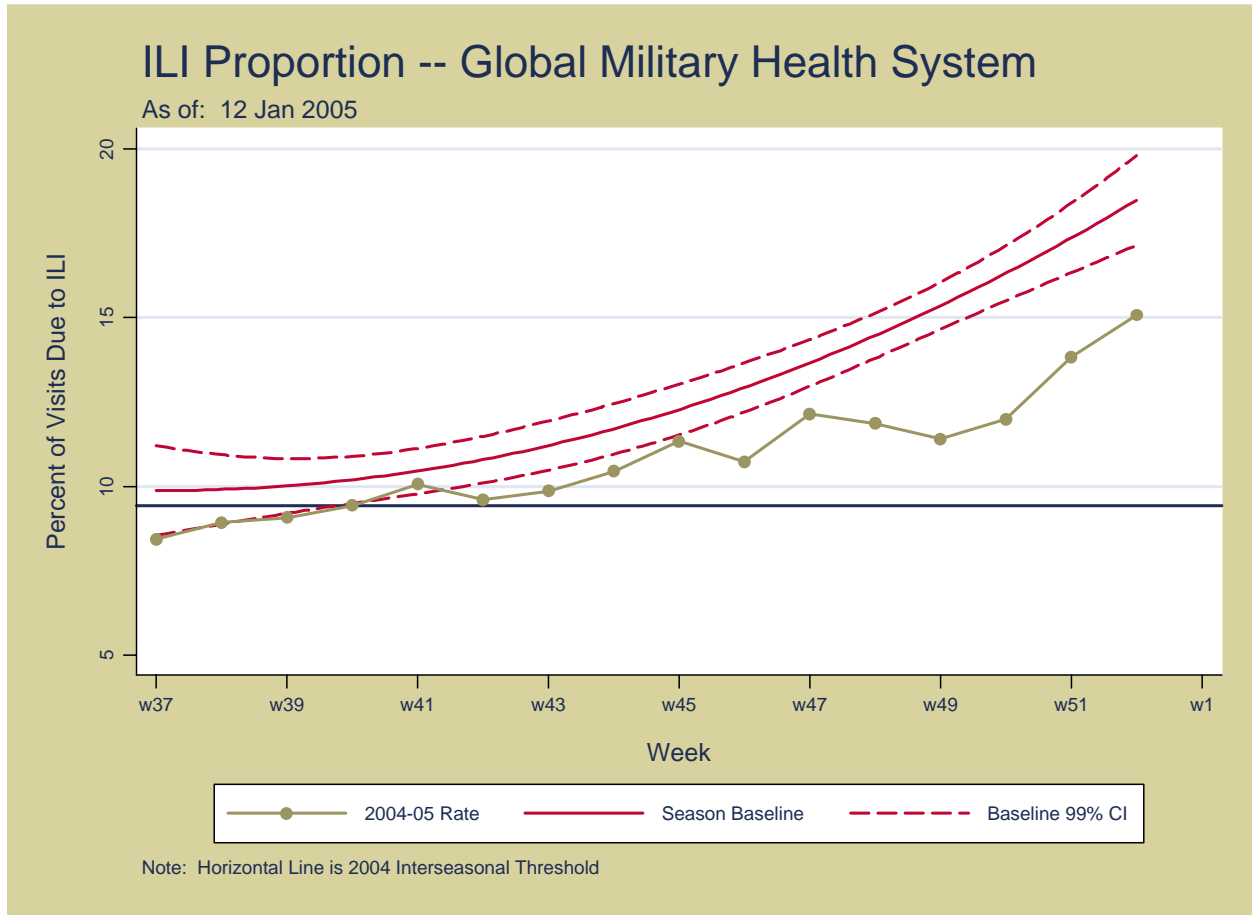
Since **3 October 2004**, we have subtyped 39 isolates using either polymerase chain reaction (PCR) or hemagglutination-inhibition (HI): 30 are Influenza A/H3N2, 2 are Influenza B/Hong Kong, and 2 are Influenza B/Shanghai. The following graph summarizes overall subtyping results. Subtyping results for individual bases can be found on the AFIOH Influenza Surveillance website:

<https://gumbo.brooks.af.mil/pestilence/Influenza/>



INFLUENZA-LIKE ILLNESS:

This graph plots the percentage of weekly outpatient visits at military installations that had an ICD-9 code correlating with Influenza-Like Illness as defined by ESSENCE. Visit and coding data were taken from ESSENCE. A seasonal baseline and 99% confidence intervals are included for comparison. The baseline was calculated from ESSENCE data for the previous 2 years. Note that the ESSENCE definition for Influenza-Like Illness differs from the CDC definition. See our website for a detailed explanation.



Graphs for individual bases and regions can be found on the AFIOH Influenza Surveillance website:

<https://gumbo.brooks.af.mil/pestilence/Influenza/ILICchartsform.cfm>

NATIONAL INFLUENZA ACTIVITY: CDC

<http://www.cdc.gov/ncidod/diseases/flu/weeklychoice.htm>

During week 52 (the latest report available), CDC reported continued increasing influenza activity mostly in the eastern United States. Laboratory surveillance identified 319 specimens (12.1%) positive for influenza. Of these, 56 were influenza A (H3N2), 237 were influenza A viruses that were not subtyped, and 26 were influenza B. New York, Vermont, and New York City reported widespread influenza activity, 12 states reported regional influenza activity, and 13 states and the District of Columbia reported local activity. Twenty-two states reported sporadic influenza activity and 1 state did not report.

INTERNATIONAL INFLUENZA ACTIVITY: WHO

<http://www.who.int/GlobalAtlas/DataQuery/home.asp>

Week in review: **Week 1**

South America: Guyana and Mexico reported sporadic activity.

Asia: China reported sporadic activity.

Europe: France, Greece, and Switzerland reported sporadic activity.

North America: No activity reported.

Africa: Tunisia reported a regional outbreak.

ADDITIONAL INFORMATION:

- **Avian Influenza Update:** One new case of human avian influenza identified in 18-year-old girl in Vietnam, bringing the total confirmed cases to four since early December 2004. The 16-year-old girl from Vietnam with confirmed influenza from last week died this weekend.

Please direct any questions or comments to: influenza@brooks.af.mil

DEMOGRAPHIC SUMMARY:

Table 1. Influenza Isolates by Sentinel Site

	New Isolates*		Cumulative (since 3 October 2004)		
# POSITIVES SUBMITTED BY SENTINEL SITES	A	B	A	B	Specimens Submitted
Al Udeid AB, Qatar	0	0	0	0	1
Andersen AFB, Guam	0	0	3	0	7
Andrews AFB, MD	1	0	1	0	4
Aviano AB, Italy	0	0	0	0	4
Balad AB, Iraq	3	0	3	0	3
Bremerton NS, WA	0	0	1	0	5
CGS Ketchikan, AK	0	0	0	0	0
Elmendorf AFB, AK	2	0	13	1	33
Ft. Dix/McGuire AFB, NJ	4	0	8	0	18
Ganci AB, Kyrg	0	0	0	0	0
Incirlik AB, Turkey	0	0	0	0	10
Kadena AB, Japan	0	0	0	0	1
Kunsan AB, Korea	0	0	0	0	3
RAF Lakenheath, UK	3	0	4	0	51
Landstuhl RMC, Germany	0	0	0	0	0
Maxwell AFB, AL	0	0	0	1	22
Misawa AB, Japan	0	0	0	0	17
NAB Little Creek, VA	2	0	2	0	9
NS Pearl Harbor/Hickam, HI	0	0	0	0	0
NH Yokosuka, Japan	0	0	0	0	4
NMC San Diego, CA	0	0	0	0	5
Osan AB, Korea	0	0	0	0	4
Ramstein AB, Germany	0	0	0	0	15
Scott AFB, IL	1	0	1	0	86
Sheppard AFB, TX	0	0	0	0	124
Travis AFB, CA	0	0	1	0	11
Tripler AMC, HI	0	0	1	3	4
US Air Force Academy, CO	1	0	2	1	8
Yokota AB, Japan	0	0	0	0	9
TOTALS for SENTINEL SITES	17	0	40	6	458

Table 2. Influenza Isolates by Overseas Labs

# POSITIVES SUBMITTED BY OVERSEAS LABS	New Isolates*		Cumulative (since 3 October 2004)		
	A	B	A	B	Specimens Submitted
AFRIMS, Thailand	0	0	0	0	0
AFRIMS, Nepal	0	0	0	0	0
NMRC-D, Peru	2	0	1	0	0
NMRC-D, Nicaragua	0	0	0	0	0
TOTALS for OVERSEAS LABS	2	0	1	0	0

Comments: * Newly identified; may include specimens collected prior to current week

Table 3. Respiratory specimens received

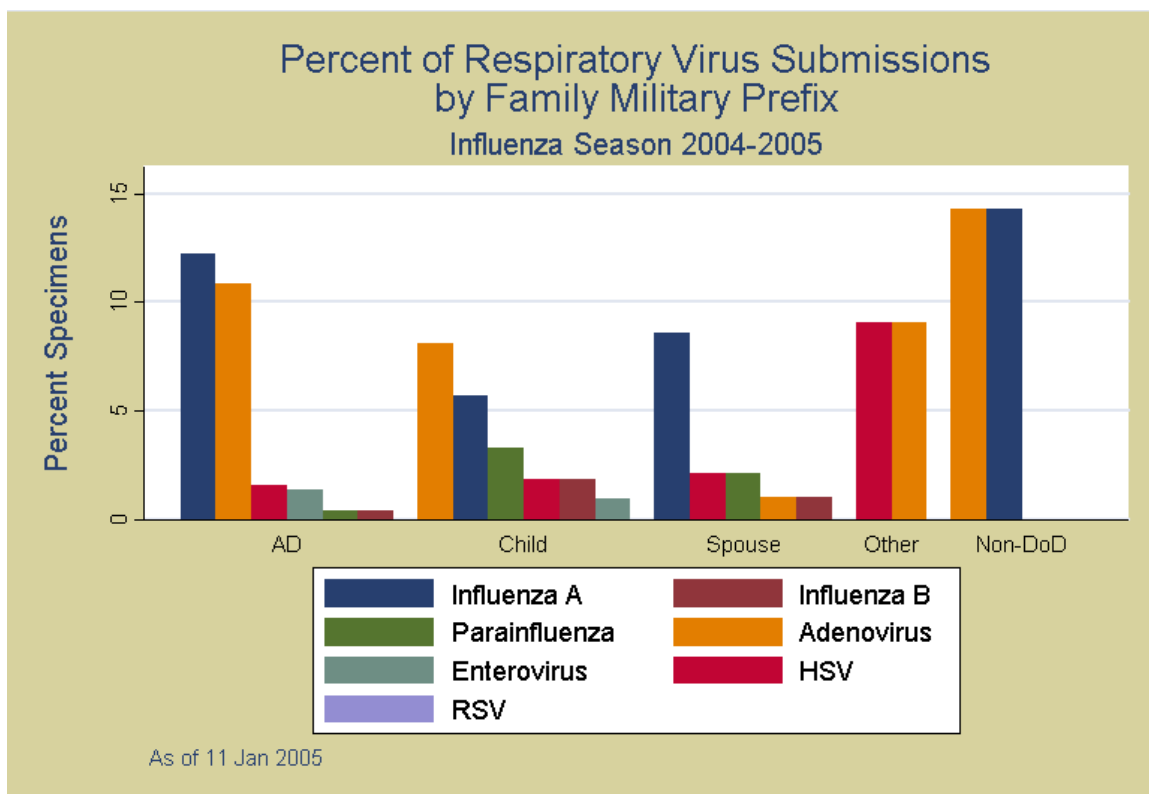
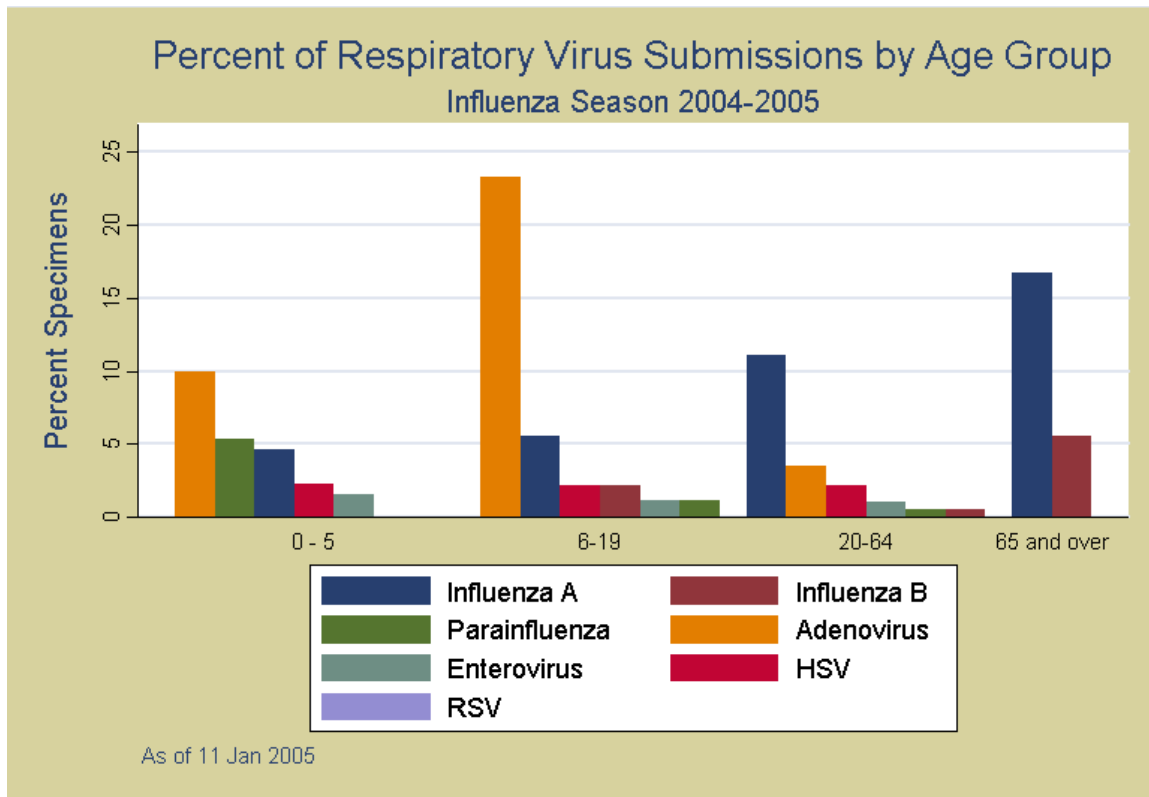
Location	Total # of Specimens Received	
	Current Week	Cumulative*
ALL SITES	284	953
NORTH AMERICA	43	529
PACOM	5	100
EUCOM	15	92
CENTCOM	3	4
SOUTH AMERICA	218	228

Comments: *Received since 3 October 2004.

Table 4. Summary of Results of Recently Processed Specimens

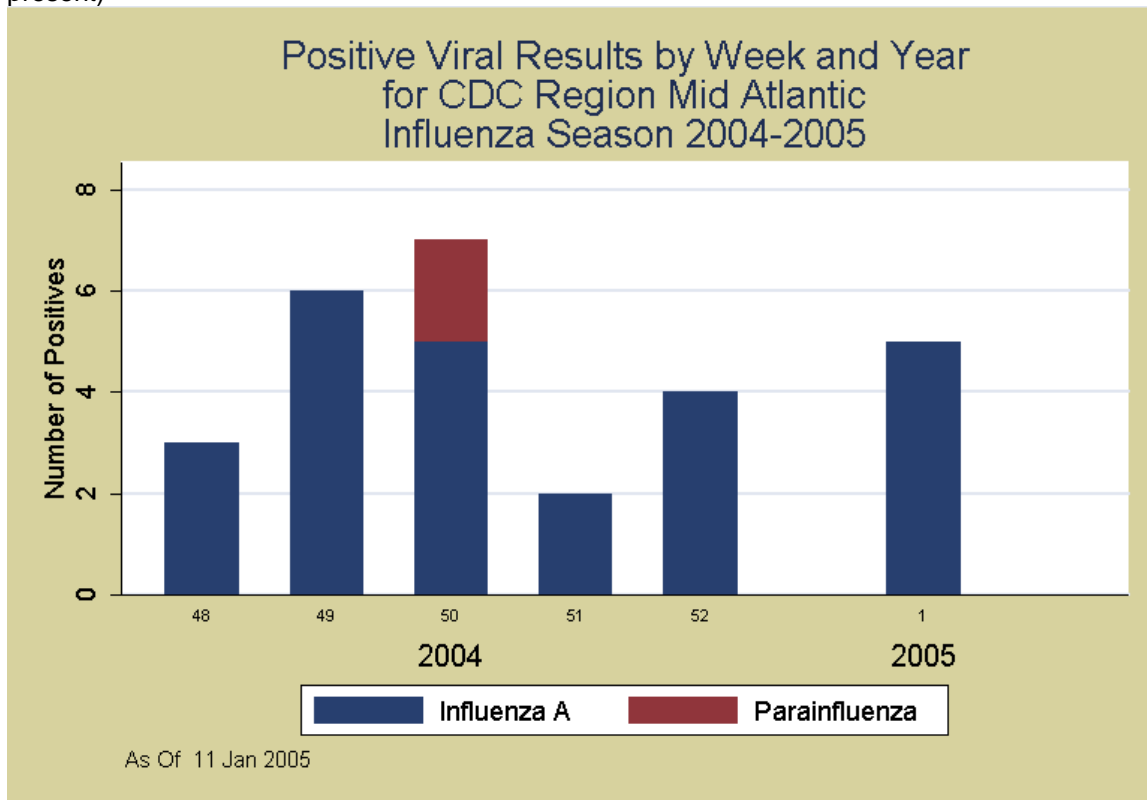
Location	Results of Specimens Processed during current week*				
	Negative	Influenza A	Influenza B	Adenovirus	Other
ALL SITES	58	34	0	2	0
NORTH AMERICA	41	23	0	0	0
PACOM	12	3	0	0	0
EUCOM	4	3	0	0	0
CENTCOM	1	3	0	0	0
SOUTH AMERICA	0	2	0	2	0

DEMOGRAPHIC GRAPHS

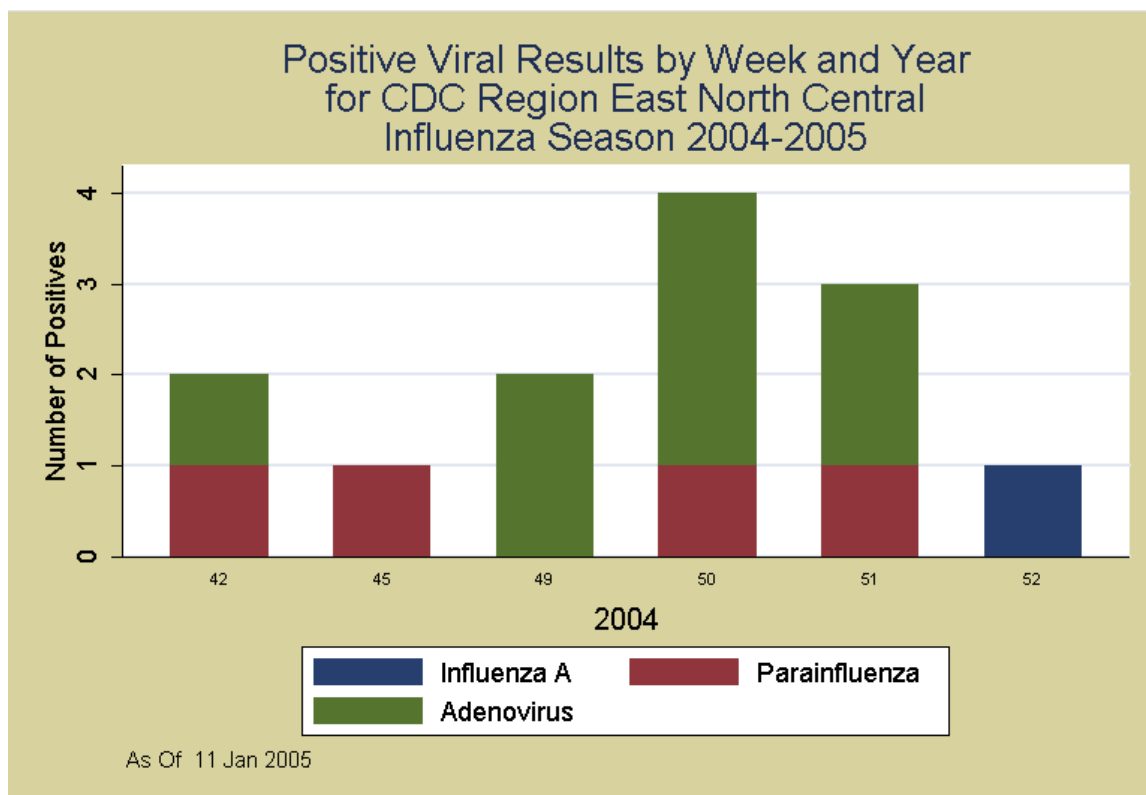


CDC REGIONAL GRAPHS

(Not all regional graphs are included because numbers of specimens are small or only one week is present)

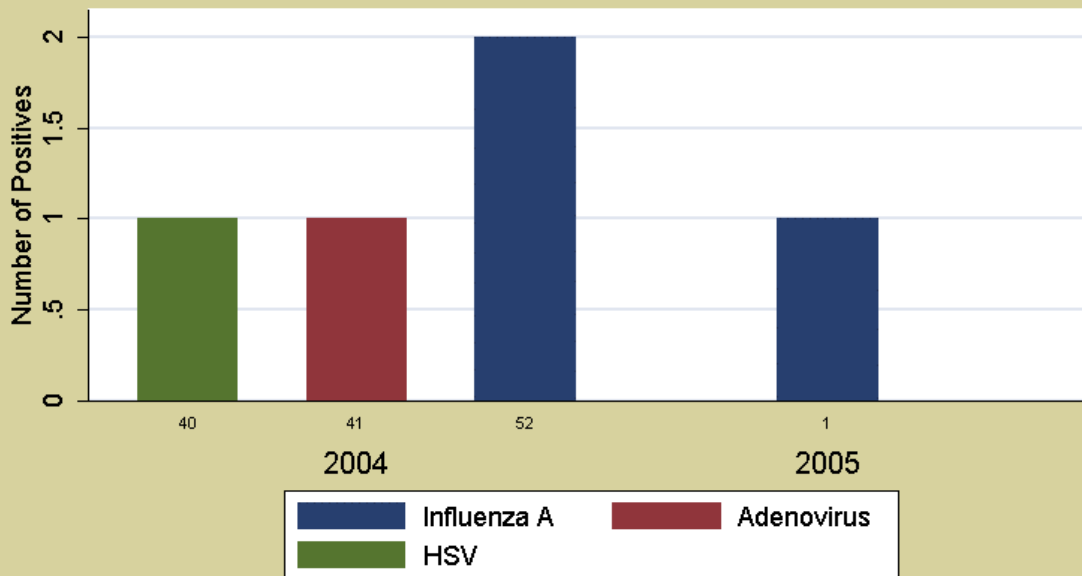


Specimens from Ft Drumm, NY and Ft.Dix/McGuire AFB, NJ



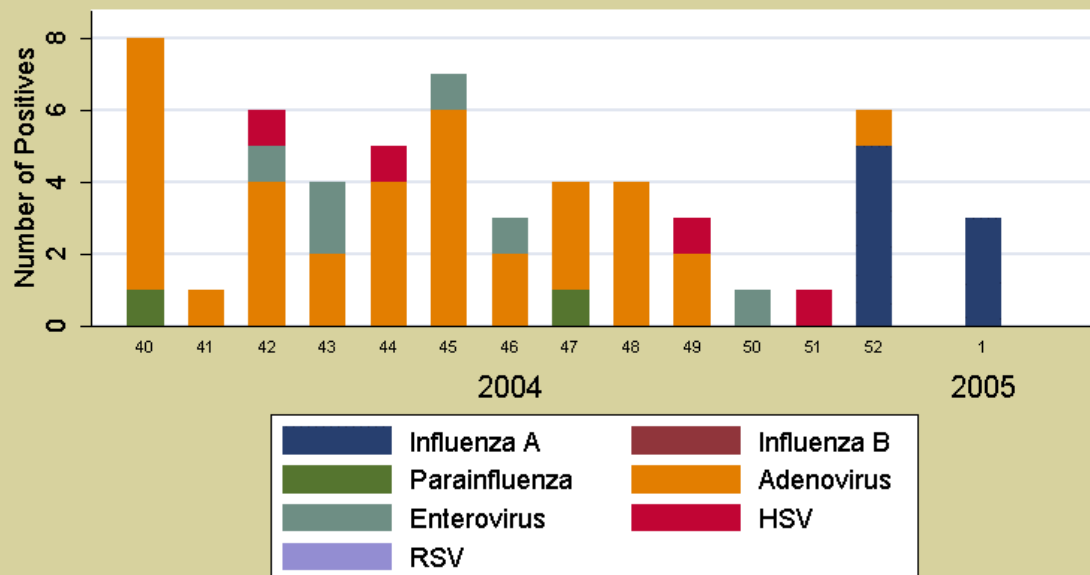
Specimens from Scott AFB, IL

Positive Viral Results by Week and Year for CDC Region South Atlantic Influenza Season 2004-2005



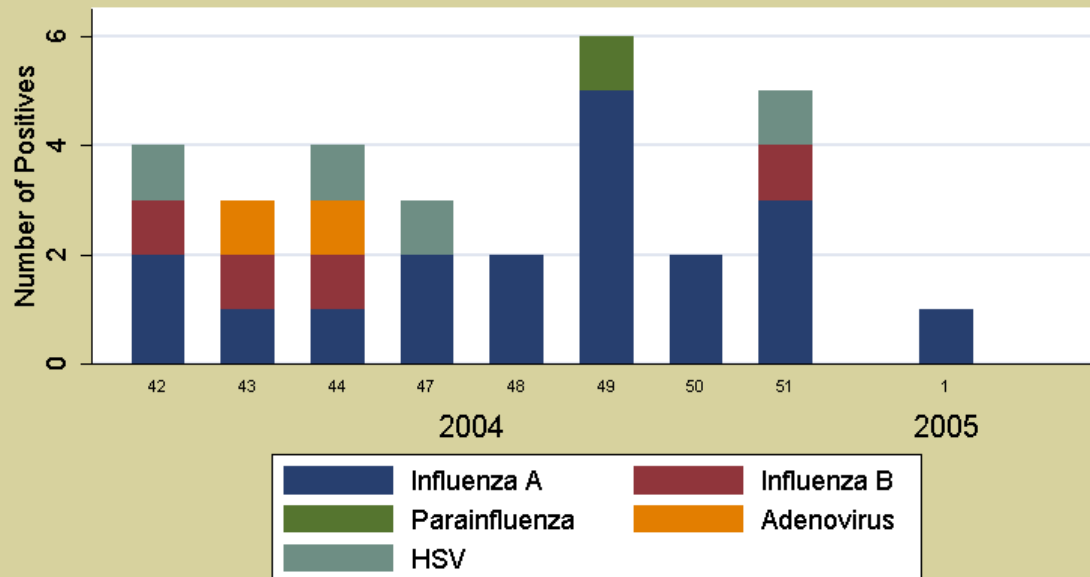
Specimens from Andrews AFB, MD; NAB Little Creek, VA; Charleston NH, SC; Tyndall AFB, FL

Positive Viral Results by Week and Year for CDC Region West South Central Influenza Season 2004-2005



Specimens from Altus AFB, OK; Tinker AFB, OK; Sheppard AFB, Corpus Christi NH, and Lackland AFB in TX

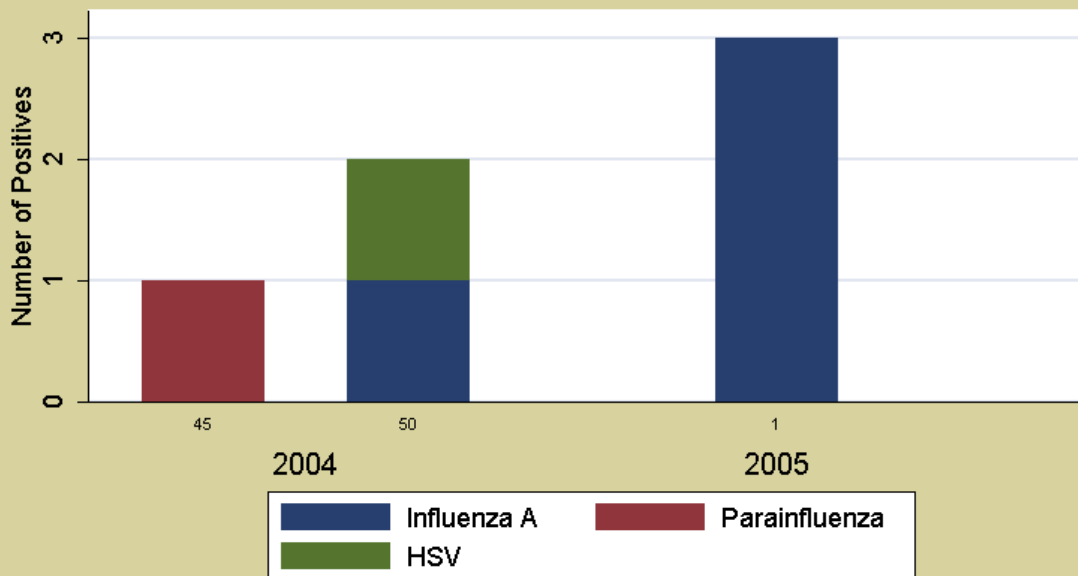
Positive Viral Results by Week and Year for CDC Region Pacific Influenza Season 2004-2005



As Of 11 Jan 2005

Specimens from Eielson AFB, Elmendorf AFB, and Ft Wainwright in AK; Bremerton NAS and Fairchild AFB in WA; Los Angeles AFB and Travis AFB in CA; Tripler AMC, HI

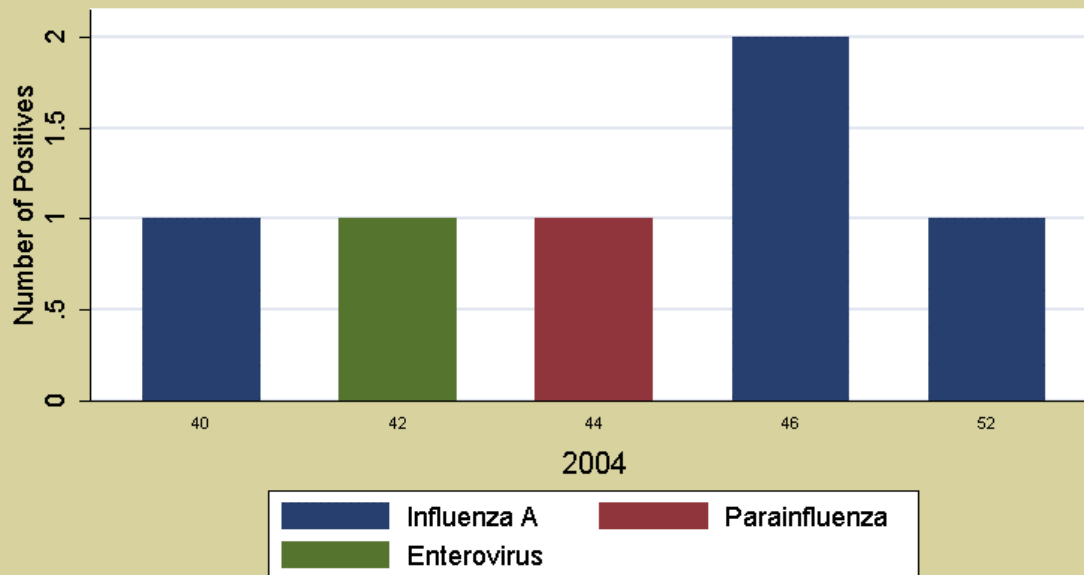
Positive Viral Results by Week and Year for CDC Region Europe Influenza Season 2004-2005



As Of 11 Jan 2005

Specimens from Lakenheath RAFB, UK and Ramstein AB, Germany

Positive Viral Results by Week and Year for CDC Region Pacific Rim Influenza Season 2004-2005



As Of 11 Jan 2005

Specimens from Andersen AFB, Guam; Misawa AB and Yokota AB in Japan; and 121st Army Hosp, Korea